



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 20.00 | 26.70 | 35.30 | 46.10 | 59.30 | 75.20 | 94.00 | | | |
| 10.0 | 18.80 | 25.20 | 33.50 | 43.70 | 56.20 | 71.20 | 89.00 | 110.00 | 134.00 | |
| 15.0 | 17.50 | 23.70 | 31.60 | 41.30 | 53.10 | 67.30 | 84.10 | 103.50 | 126.50 | 152.50 |
| 20.0 | 16.20 | 22.20 | 29.60 | 38.80 | 49.90 | 63.30 | 79.10 | 97.60 | 119.00 | 144.00 |
| 25.0 | | 20.60 | 27.60 | 36.30 | 46.70 | 59.20 | 74.00 | 91.40 | 111.50 | 135.00 |
| 30.0 | | | 25.60 | 33.70 | 43.50 | 55.10 | 69.00 | 85.20 | 104.00 | 126.00 |
| 35.0 | | | 23.50 | 31.10 | 40.20 | 51.00 | 63.80 | 78.90 | 96.60 | 117.00 |
| 40.0 | | | | 28.40 | 36.80 | 46.80 | 58.70 | 72.70 | 89.00 | 108.00 |
| 45.0 | | | | 25.70 | 33.40 | 42.60 | 53.50 | 66.30 | 81.40 | 98.80 |
| 50.0 | | | | | 29.90 | 38.30 | 48.20 | 59.90 | 73.70 | 89.70 |
| 55.0 | | | | | 26.40 | 33.90 | 42.90 | 53.50 | 65.90 | 80.60 |
| 60.0 | | | | | | 29.50 | 37.50 | 46.90 | 58.10 | |
| 62.0 | | | | | | 27.70 | 35.30 | 44.30 | 55.00 | |

50 Hz

6MU-40X

R404A Dew Point

| Cond °C | Power, kW | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 9.93 | 11.50 | 13.10 | 14.55 | 15.90 | 17.05 | 17.95 | | | |
| 10.0 | 10.25 | 12.00 | 13.70 | 15.35 | 16.90 | 18.30 | 19.45 | 20.30 | 20.80 | |
| 15.0 | 10.60 | 12.45 | 14.35 | 16.20 | 17.95 | 19.55 | 21.00 | 22.10 | 23.00 | 23.40 |
| 20.0 | 10.85 | 12.90 | 15.00 | 17.05 | 19.05 | 20.90 | 22.50 | 24.00 | 25.10 | 25.90 |
| 25.0 | | 13.30 | 15.60 | 17.85 | 20.10 | 22.20 | 24.10 | 25.80 | 27.30 | 28.40 |
| 30.0 | | | 16.10 | 18.60 | 21.00 | 23.40 | 25.60 | 27.70 | 29.50 | 30.90 |
| 35.0 | | | 16.50 | 19.20 | 21.90 | 24.60 | 27.10 | 29.50 | 31.60 | 33.40 |
| 40.0 | | | | 19.70 | 22.70 | 25.60 | 28.50 | 31.10 | 33.60 | 35.80 |
| 45.0 | | | | 20.00 | 23.30 | 26.50 | 29.70 | 32.70 | 35.50 | 38.10 |
| 50.0 | | | | | 23.70 | 27.30 | 30.70 | 34.10 | 37.30 | 40.30 |
| 55.0 | | | | | 23.90 | 27.80 | 31.60 | 35.30 | 38.90 | 42.30 |
| 60.0 | | | | | | 28.00 | 32.20 | 36.30 | 40.30 | |
| 62.0 | | | | | | 28.10 | 32.40 | 36.70 | 40.80 | |

| Cond °C | Current at 400 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 26.03 | 27.48 | 29.10 | 30.79 | 32.41 | 33.86 | 35.03 | | | |
| 10.0 | 26.31 | 27.93 | 29.78 | 31.73 | 33.66 | 35.47 | 37.03 | 38.23 | 38.96 | |
| 15.0 | 26.62 | 28.43 | 30.51 | 32.74 | 35.00 | 37.18 | 39.16 | 40.82 | 42.05 | 42.73 |
| 20.0 | 26.91 | 28.93 | 31.26 | 33.78 | 36.39 | 38.95 | 41.35 | 43.49 | 45.24 | 46.48 |
| 25.0 | | 29.37 | 31.97 | 34.80 | 37.76 | 40.72 | 43.57 | 46.20 | 48.48 | 50.30 |
| 30.0 | | | 32.59 | 35.75 | 39.07 | 42.45 | 45.76 | 48.89 | 51.72 | 54.14 |
| 35.0 | | | 33.07 | 36.57 | 40.28 | 44.09 | 47.88 | 51.52 | 54.92 | 57.95 |
| 40.0 | | | | 37.22 | 41.34 | 45.59 | 49.86 | 54.04 | 58.02 | 61.67 |
| 45.0 | | | | 37.66 | 42.18 | 46.89 | 51.67 | 56.40 | 60.97 | 65.26 |
| 50.0 | | | | | 42.77 | 47.96 | 53.26 | 58.55 | 63.73 | 68.68 |
| 55.0 | | | | | 43.06 | 48.73 | 54.57 | 60.44 | 66.25 | 71.86 |
| 60.0 | | | | | | 49.17 | 55.55 | 62.02 | 68.46 | |
| 62.0 | | | | | | 49.24 | 55.84 | 62.56 | 69.26 | |

50 Hz

6MU-40X

R404A Dew Point

| Cond °C | Suction Mass Flow, g/s | | | | | | | | | |
|------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 107.00 | 142.50 | 189.00 | 248.00 | 320.00 | 407.00 | 511.00 | | | |
| 10.0 | 104.00 | 140.00 | 186.50 | 244.00 | 315.00 | 401.00 | 503.00 | 625.00 | 767.00 | |
| 15.0 | 101.00 | 137.50 | 183.00 | 240.00 | 310.00 | 394.00 | 496.00 | 615.00 | 756.00 | 920.00 |
| 20.0 | 97.80 | 134.00 | 179.50 | 236.00 | 305.00 | 388.00 | 487.00 | 605.00 | 744.00 | 906.00 |
| 25.0 | | 130.50 | 175.50 | 231.00 | 299.00 | 381.00 | 478.00 | 595.00 | 732.00 | 893.00 |
| 30.0 | | | 171.00 | 226.00 | 293.00 | 373.00 | 469.00 | 584.00 | 719.00 | 878.00 |
| 35.0 | | | 166.00 | 220.00 | 286.00 | 365.00 | 459.00 | 572.00 | 706.00 | 864.00 |
| 40.0 | | | | 214.00 | 278.00 | 356.00 | 449.00 | 560.00 | 692.00 | 848.00 |
| 45.0 | | | | 206.00 | 270.00 | 346.00 | 437.00 | 547.00 | 677.00 | 833.00 |
| 50.0 | | | | | 260.00 | 335.00 | 425.00 | 533.00 | 663.00 | 818.00 |
| 55.0 | | | | | 250.00 | 324.00 | 412.00 | 519.00 | 648.00 | 803.00 |
| 60.0 | | | | | | 312.00 | 399.00 | 506.00 | 635.00 | |
| 62.0 | | | | | | 307.00 | 395.00 | 501.00 | 631.00 | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|----------------------------------------------------------------------------|----------------------------------------------|
| Number of cylinders | 6 |
| Displacement @ 50 Hz, m ³ /h | 153 |
| Bore/Stroke, mm | 80.6/57.5 |
| Length/Width, mm | 757/547 |
| Height, mm | 450 |
| Net Weight, kg | 225 |
| Suction, inch | 2 5/8 |
| Discharge, inch | 1 5/8 |
| Oil Quantity, l | 3.3 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Base mounting (hole dia), mm | 381 x 305 (18) |
| Sound Pressure @ 1m (LT), dBA | 78 |
| Sound Power (LT), dBA | 89 |
| Sound Power with Sound Shell (LT), dBA | 74 |
| Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed) | -35 / 40 / 20 °C at 50 Hz |
| Sound Pressure @ 1m (MT), dBA | 75 |
| Sound Power (MT), dBA | 86 |
| Sound Power with Sound Shell (MT), dBA | 72 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| High Side PS gauge, bar | 32.5 |
| Low Side PS gauge, bar | 22.5 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 75.8 |
| Locked Rotor Current, A | 306 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| CoreSense Protection (-P) | Motor protection |
| Mounting Parts | Spring |
| Oil Pressure Switch (-P) | OPS2 Sensor |
| Copeland Compressor Electronic (-N) | Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement |

ACCESSORIES OPTIONAL

| | |
|---------------------------------------|------------------------------|
| Check Valve | For unloaded start operation |
| Mounting Parts | Rubber |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Crankcase Heater | 100 W Internal |
| Sound Attenuation | Sound Shell |
| Digital Modulation | 33-100 % |
| Capacity Control | Capacity Steps 67/33 % |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Adapter Kit | For Parallel Operation |
| Copeland Compressor Electronic module | Modbus extension module |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| AWM | 380-420 V / 3~ / 50 Hz | 400 | YYY | Y | 1.00 |
| EWL | 220-240 V / 3~ / 50 Hz | 230 | Y/DELTA | DELTA | 1.73 |
| EWL | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| EWM | 380-420 V / 3~ / 50 Hz | 400 | Y/DELTA | DELTA | 1.00 |
| AWR | 220-240 V / 3~ / 50 Hz | 230 | YYY | Y | 1.73 |
| AWY | 500-550 V / 3~ / 50 Hz | 525 | YYY | Y | 0.76 |
| EWK | 220-240 V / 3~ / 60 Hz | 230 | Y/DELTA | DELTA | 2.10 |
| EWK | 380-420 V / 3~ / 60 Hz | 380 | | Y | 1.20 |
| EWD | 440-480 V / 3~ / 60 Hz | 460 | Y/DELTA | DELTA | 1.00 |
| AWC | 208-230 V / 3~ / 60 Hz | 230 | YYY | Y | 2.19 |
| AWX | 380 V / 3~ / 60 Hz | 380 | YYY | Y | 1.20 |
| AWD | 440-480 V / 3~ / 60 Hz | 460 | YYY | Y | 1.00 |